

Title (en)

HIGH ALTITUDE PLATFORM BEAM ARRANGEMENT

Title (de)

STRAHLANORDNUNG FÜR PLATTFORM MIT HOHER HÖHE

Title (fr)

AGENCEMENT DE FAISCEAU DE PLATE-FORME DE HAUTE ALTITUDE

Publication

EP 3900206 A2 20211027 (EN)

Application

EP 19900161 A 20191210

Priority

- US 201816221920 A 20181217
- US 2019065451 W 20191210

Abstract (en)

[origin: WO2020131493A2] The disclosure provides for a communication system. The communication system includes a station (110), (120), (130), (140) moving relative to a geographic area (312), a plurality of antennas (240), and one or more processors (210) configured to control the plurality of antennas. For instance, the one or more processors may be configured to control a first antenna (242) of the plurality of antennas to output a primary beam (310) to cover the geographic area, wherein the primary beam is associated with a primary cell having a first center frequency, and to control a second set of antennas of the plurality of antennas to output a plurality of secondary beams (320A-G) to cover a plurality of locations within the geographic area, wherein the plurality of secondary beams each has a beam angle smaller than the primary beam, and wherein the plurality of secondary beams are all associated with a secondary cell having a second center frequency.

IPC 8 full level

H04B 7/0408 (2017.01); **H04B 7/06** (2006.01); **H04B 7/185** (2006.01); **H04W 72/04** (2009.01); **H04W 76/27** (2018.01)

CPC (source: EP US)

H04B 7/0408 (2013.01 - US); **H04B 7/0617** (2013.01 - EP US); **H04B 7/0695** (2013.01 - EP US); **H04B 7/18504** (2013.01 - EP); **H04B 7/2041** (2013.01 - EP); **H04W 4/021** (2013.01 - US); **H04W 16/28** (2013.01 - US); **H04W 36/302** (2023.05 - EP US); **H04W 72/046** (2013.01 - US); **H04W 76/10** (2018.01 - US); **H04W 76/20** (2018.01 - US); **H04B 7/0408** (2013.01 - EP); **H04W 84/06** (2013.01 - US)

Designated contracting state (EPC)

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Designated extension state (EPC)

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WO 2020131493 A2 20200625; **WO 2020131493 A3 20210325**; EP 3900206 A2 20211027; EP 3900206 A4 20221207; EP 3900206 B1 20230719; EP 3900206 C0 20230719; US 11337080 B1 20220517

DOCDB simple family (application)

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